The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended): A polymer comprising recurring units of a compound of formula (1):

wherein

A is a divalent aliphatic or alicyclic hydrocarbon group of 2 to 20 carbon atoms, R¹ is selected from formulae (3)-1, (3)-2, (3)-3, (3)-4, (3)-5, (3)-6, (3)-7, (3)-8, and (3)-9

"a" is a positive number of 1 to 3,

R is a single bond, methylene group, oxygen atom, NH group or sulfur atom,

R² and R³ each are a single bond or methylene group,

R⁵ is a fluorinated alkyl group which optionally contains an ether or ester bond,

R⁶ and R¹¹ are, each independently, hydrogen or a straight alkyl group of 1 to 10 carbon atoms,

R⁷ is hydrogen, a straight alkyl group of 1 to 10 carbon atoms, or -C=O-R¹²,

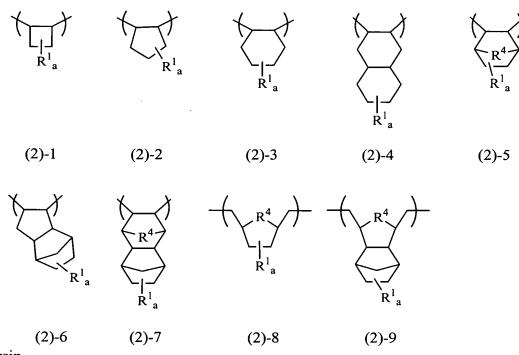
R¹² is hydrogen or a straight alkyl group of 1 to 10 carbon atoms, and

 R^8 is an alkylene group of 1 to 10 carbon atoms, and

either one or both of R⁹ and R¹⁰ are alkyl groups of 1 to 5 carbon atoms having at least one fluorine atom substituted thereon.

- 2. (Original): The polymer of claim 1 further comprising recurring units containing acid labile groups.
- 3. (Previously Presented): A chemically amplified resist composition comprising the polymer of claim 1.
- 4. (Previously Presented): A chemically amplified positive resist composition comprising
 - (A) the polymer of claim 1,
 - (B) an organic solvent, and
 - (C) a photoacid generator.
- 5. (Original): The resist composition of claim 4 further comprising a basic compound.
- 6. (Original): The resist composition of claim 4 further comprising a dissolution inhibitor.
- 7. (Original): A process for forming a resist pattern comprising the steps of: applying the resist composition of claim 4 onto a substrate to form a coating, heat treating the coating and then exposing it to high-energy radiation having a wavelength of up to 180 nm or electron beams through a photo mask, and optionally heat treating the exposed coating and developing it with a developer.
 - 8. (Cancelled):
 - 9. (Cancelled):

- 10. (Previously Presented): A polymer of claim 1, wherein R is a single bond or methylene.
- 11. (Previously Presented): A polymer of claim 1, wherein the recurring units of formula (1) are selected from formulae (2)-1, (2)-2, (2)-3, (2)-4, (2)-5, (2)-6, (2)-7, (2)-8, and (2)-9



wherein

R⁴ is a methylene group, oxygen atom, NH group or sulfur atom, and "a" is a positive number of 1 to 3.

- 12. (Cancelled):
- 13. (Previously Presented): A polymer comprising recurring units of a compound of formula (1):

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+R^2 & R^3 \\
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wherein A is a divalent aliphatic or alicyclic hydrocarbon group of 2 to 20 carbon atoms, R¹ is an alkyl group containing at least one fluorine atom, and which optionally contains a hetero atom, "a" is a positive number of 1 to 3, R is a single bond, methylene group, oxygen atom, NH group or sulfur atom, and R² and R³ each are a single bond or methylene group,

wherein the recurring units of formula (1) are selected from formulae (2)-1, (2)-2, (2)-3, (2)-4, (2)-5, (2)-6, (2)-7, (2)-8, and (2)-9

wherein

 $\ensuremath{R^4}$ is a methylene group, oxygen atom, NH group or sulfur atom,

"a" is a positive number of 1 to 3,

R¹ is selected from formulae (3)-1, (3)-2, (3)-3, (3)-4, (3)-5, (3)-6, (3)-7, (3)-8, and (3)-9

R⁶ and R¹¹ are, each independently, hydrogen or a straight alkyl group of 1 to 10 carbon atoms, R⁷ is hydrogen, a straight alkyl group of 1 to 10 carbon atoms, or -C=O-R¹²,

R¹² is hydrogen or a straight alkyl group of 1 to 10 carbon atoms, and

R⁸ is an alkylene group of 1 to 10 carbon atoms,

wherein either one or both of R⁹ and R¹⁰ are alkyl groups of 1 to 5 carbon atoms having at least one fluorine atom substituted thereon, and

 R^5 is selected from formulae (4)-1, (4)-2, (4)-3, (4)-4, (4)-5, (4)-6, (4)-7, (4)-8, (4)-9, (4)-10 and (4)-11

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$$-CF_{3} - CH_{2}CF_{3} - CH_{2}CF_{2}CF_{3} - CF_{2}CF_{2}CF_{3} - \frac{CF_{3}}{CF_{3}} - \frac{CF_{3}}{CF_{3}}$$

$$(4)-1 \quad (4)-2 \quad (4)-3 \quad (4)-4 \quad (4)-5 \quad (4)-6$$

$$-CF_{2}CF_{2}CF_{2}CF_{3} - CF_{2}CF_{2}CF_{2}CF_{3} - CH_{2}CF_{2}CF_{2}CF_{2}CF_{3}$$

$$(4)-7 \quad (4)-8 \quad (4)-9$$

$$\frac{CF_{3}}{CF_{3}} - CH_{2}CF_{2}CF_{3} - CF_{2}CF_{2}CF_{3}$$

$$(4)-10 \quad (4)-11$$

14. (Previously Presented): A polymer of claim 1, further comprising recurring units of a (meth)acrylic compound of formula (5)-1 or (5)-2

$$R^{16}$$
 R^{14}
 R^{15}
 R^{15}

wherein

R¹³ is an acid labile group, and

R¹⁴, R¹⁵ and R¹⁶ are, each independently, a hydrogen atom, fluorine atom, or a straight, branched or cyclic alkyl group of 1 to 10 carbon atoms, which are, each independently, optionally substituted with fluorine.

15. (Previously Presented): A polymer comprising recurring units of a compound of formula (1):

wherein A is a divalent aliphatic or alicyclic hydrocarbon group of 2 to 20 carbon atoms, R¹ is an alkyl group containing at least one fluorine atom, and which optionally contains a hetero atom, "a" is a positive number of 1 to 3, R is a single bond, methylene group, oxygen atom, NH group or sulfur atom, and R² and R³ each are a single bond or methylene group,

said compound further comprising recurring units of a styrene compound of formula (6)

$$R^{16}$$
 R^{16}
 R

wherein

R¹³ is an acid labile group,

R¹⁴, R¹⁵ and R¹⁶ are, each independently, a hydrogen atom, fluorine atom, or a straight, branched or cyclic alkyl group of 1 to 10 carbon atoms, which are, each independently, optionally substituted with fluorine,

R¹⁷ is a hydrogen atom, fluorine atom, or a straight, branched or cyclic alkyl group of 1 to 10 carbon atoms, which is optionally substituted with fluorine,

b is a positive number of 1 to 5, and

c and d are, each independently, 0 or a positive number of 1 to 4.

16. (Previously Presented): A polymer comprising recurring units of a compound 8 KOJIM-393

of formula (1):

wherein A is a divalent aliphatic or alicyclic hydrocarbon group of 2 to 20 carbon atoms, R¹ is an alkyl group containing at least one fluorine atom, and which optionally contains a hetero atom, "a" is a positive number of 1 to 3, R is a single bond, methylene group, oxygen atom, NH group or sulfur atom, and R² and R³ each are a single bond or methylene group,

said compound further comprising recurring units of a norbornene compound selected from formulae (7)-1, (7)-2, (7)-3, (7)-4, (7)-5, (7)-6, and (7)-7

$$R^{4}$$
 R^{4} R^{4

wherein

 R^4 is a methylene group, oxygen atom, NH group or sulfur atom, and R^{13} is an acid labile group.

17. (Previously Presented): A polymer comprising recurring units of a compound of formula (1):

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wherein A is a divalent aliphatic or alicyclic hydrocarbon group of 2 to 20 carbon atoms, R^1 is an alkyl group containing at least one fluorine atom, and which optionally contains a hetero atom, "a" is a positive number of 1 to 3, R is a single bond, methylene group, oxygen atom, NH group or sulfur atom, and R^2 and R^3 each are a single bond or methylene group,

said compound further comprising recurring units of a tricyclodecene compound selected from formulae (8)-1, (8)-2, (8)-3, (8)-4, (8)-5, (8)-6, (8)-7, (8)-8, (8)-9, (8)-10, (8)-11, (8)-12, (8)-13, and (8)-14

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wherein

 R^4 is a methylene group, oxygen atom, NH group or sulfur atom, and R^{13} is an acid labile group.

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18. (Previously Presented): A polymer comprising recurring units of a compound of formula (1):

wherein A is a divalent aliphatic or alicyclic hydrocarbon group of 2 to 20 carbon atoms, R¹ is an alkyl group containing at least one fluorine atom, and which optionally contains a hetero atom, "a" is a positive number of 1 to 3, R is a single bond, methylene group, oxygen atom, NH group or sulfur atom, and R² and R³ each are a single bond or methylene group,

said compound further comprising recurring units of a tetracyclododecene compound selected from formulae (9)-1, (9)-2, (9)-3, (9)-4, (9)-5, (9)-6, and (9)-7

wherein

 R^4 is a methylene group, oxygen atom, NH group or sulfur atom, and R^{13} is an acid labile group.

19. (Previously Presented): A polymer comprising recurring units of a compound of formula (1):

wherein A is a divalent aliphatic or alicyclic hydrocarbon group of 2 to 20 carbon atoms, R¹ is an alkyl group containing at least one fluorine atom, and which optionally contains a hetero atom, "a" is a positive number of 1 to 3, R is a single bond, methylene group, oxygen atom, NH group or sulfur atom, and R² and R³ each are a single bond or methylene group,

said compound further comprising recurring units of a maleimide compound of formula (10)-1 or (10)-2

wherein

R¹³ is an acid labile group,

R¹⁴ is a single bond or an alkylene group of 1 to 10 carbon atoms, and

R¹⁵ and R¹⁶ are, each independently, hydrogen, fluorine, methyl or trifluoromethyl.

20. (Previously Presented): A polymer comprising recurring units of a compound of formula (1):

wherein A is a divalent aliphatic or alicyclic hydrocarbon group of 2 to 20 carbon atoms, R^1 is an alkyl group containing at least one fluorine atom, and which optionally contains a hetero atom, "a" is a positive number of 1 to 3, R is a single bond, methylene group, oxygen atom, NH group or sulfur atom, and R^2 and R^3 each are a single bond or methylene group,

said compound further comprising recurring units of a vinyl alcohol compound of formula (11)

$$\begin{array}{c}
R^{16}R^{14} \\
R^{15} \\
Q \\
R^{13}
\end{array} (11)$$

wherein

R¹³ is an acid labile group, and

R¹⁴, R¹⁵ and R¹⁶ are, each independently, a hydrogen atom, fluorine atom, or a straight, branched or cyclic alkyl group of 1 to 10 carbon atoms, which are, each independently, optionally substituted with fluorine.

- 21. (Previously Presented): A polymer according to claim 1, wherein said polymer has a weight average molecular weight of 1,000 to 1,000,000.
- 22. (Previously Presented): In a process of preparing a polymer, the improvement wherein a monomer of formula (1) of claim 1 is used.
- 23. (Previously Presented): In a process of forming a resist composition or a resist pattern, the improvement wherein a polymer of claim 1 is used.

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24. (Cancelled):

25. (Currently Amended): A polymer of claim 1, wherein R¹ is selected from formulae (3)-1, (3)-2, (3)-3, (3)-4, (3)-5, (3)-6, (3)-7, and (3)-9

R⁵ is a fluorinated alkyl group which optionally contains an ether or ester bond, R⁶ and R¹¹ are, each independently, hydrogen or a straight alkyl group of 1 to 10 carbon atoms, R⁷ is hydrogen, a straight alkyl group of 1 to 10 carbon atoms, or -C=O-R¹², R¹² is hydrogen or a straight alkyl group of 1 to 10 carbon atoms, and R⁸ is an alkylene group of 1 to 10 carbon atoms.

- 26. (Previously Presented): A polymer according to claim 25, further comprising recurring units containing acid labile groups.
- 27. (Previously Presented): A chemically amplified resist composition comprising a polymer according to claim 25.
- 28. (Previously Presented): A chemically amplified positive resist composition comprising
 - (A) the polymer of claim 25,
 - (B) an organic solvent, and
 - (C) a photoacid generator.

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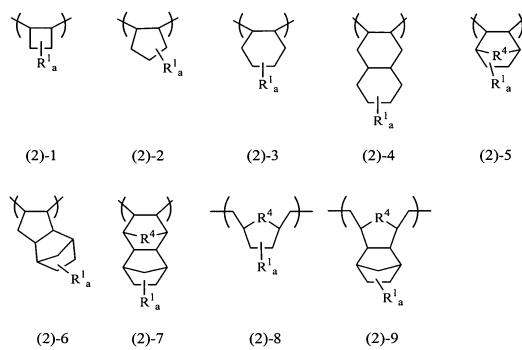
- 29. (Previously Presented): A resist composition according to claim 28, further comprising a basic compound.
- 30. (Previously Presented): A resist composition according to claim 28, further comprising a dissolution inhibitor.
- 31. (Previously Presented): A process for forming a resist pattern comprising the steps of:

applying a resist composition according to claim 28 onto a substrate to form a coating, heat treating the coating and then exposing it to high-energy radiation having a wavelength of up to 180 nm or electron beams through a photo mask, and optionally heat treating the exposed coating and developing it with a developer.

32. (Previously Presented): A polymer of claim 25, wherein R is a single bond or methylene.

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33. (Currently Amended): A polymer of claim <u>25</u> 1, wherein the recurring units of formula (1) are selected from formulae (2)-1, (2)-2, (2)-3, (2)-4, (2)-5, (2)-6, (2)-7, (2)-8, and (2)-9



wherein

R⁴ is a methylene group, oxygen atom, NH group or sulfur atom, and "a" is a positive number of 1 to 3.